IN THE CLAIMS:

Amend the claims as follows.

Claims 1-22 (Canceled).

- 23. (Previously Presented) An isolated HCV E1 envelope peptide as defined by any of SEQ ID Nos:1-16 and 37.
- 24. (Previously Presented) An isolated HCV E1 envelope peptide consisting of up to 45 contiguous amino acids wherein an amino acid sequence selected from SEQ ID Nos:1-16 and 37 is present in said peptide.
- 25. (Previously Presented) An isolated peptide selected from the group consisting of:
 - a peptide of 21 to 23 contiguous amino acids of SEQ ID NO:6;
 - a peptide of 21 to 28 contiguous amino acids of SEQ ID NO:10;
 - a peptide of 21 to 30 contiguous amino acids of SEQ ID NO:13;
 - a peptide of 21 to 33 contiguous amino acids of SEQ ID NO:11 or 15;
 - a peptide of 21 to 34 contiguous amino acids of SEQ ID NOs:1-5 or 7-9;
 - a peptide of 21 to 35 contiguous amino acids of SEQ ID NO:12;
 - a peptide of 21 to 39 contiguous amino acids of SEQ ID NO:14 or 37;
 - a peptide of 21 to 40 contiguous amino acids of SEQ ID NO:16.

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Claims 26-27 (Canceled)

- 28. (Currently Amended) A method of immunizing a human against infection with HCV-related virus or any mutated strain thereof, comprising administering to said human at least one peptide according to any one of claims 23 to 25to 27.
- 29. (Currently Amended) An assay kit for detecting the presence of anti-HCV-related virus antibodies within a sample of body fluid comprising:

optionally, a solid support,

at least one peptide according to any one of claims 23 to 25to 27, and optionally, markers which allow detection of complexes formed between anti-HCV-related virus antibodies within a sample of body fluid with said at least one peptide.

- 30. (Currently Amended) A bioassay for identifying a compounds which modulate the interaction between a peptide according to any one of claims 23 to 25 to 27 and an anti-HCV-related virus antibody, said bioassay comprising
 - (i) contacting said peptide with said anti-HCV-related virus antibody;
- (ii) after (i), determining the binding between said peptide and said anti-HCV-related virus antibody;
- (iii) adding said compound or a combination of said compounds to the peptideantibody complex formed in (i);

- (iv) after (iii), determining the binding between said peptide and said anti-HCV-related virus antibody; and
- (v) inferring, from (ii) and (iv) the modulation of binding between said peptide and said anti-HCV-related virus antibody by said added compound or said added combination of compounds.
- 31. (Currently Amended) A bioassay for identifying a compounds which modulate the interaction between a peptide according to any one of claims 23 to 25to 27 and an anti-HCV-related virus antibody, said bioassay comprising
- (i) determining the binding between said peptide and said anti-HCV-related virus antibody;
 - (ii) contacting said peptide with said compound;
- (iii) adding said anti-HCV-related virus antibody to the peptide-compound complex formed in (ii);
 - (iv) after (iii), determining the binding between said peptide and said compound;
- (v) inferring, from (i) and (iv) the modulation of binding between said peptide and said anti-HCV-related virus antibody by said compound.
- 32. (New) The isolated peptide of any one of claims 23-25 which is synthesized chemically.
- 33. (New) The isolated peptide of any one of claims 23-25 which is synthesized using recombinant DNA techniques.

- 34. (New) The isolated peptide of claim 33 wherein said peptide is synthesized using a plasmid vector comprising a nucleotide sequence encoding said peptide operably linked to transcription regulatory elements.
- 35. (New) The isolated peptide of any one of claims 23-25 which is biotinylated or which is containing cysteine bridges.
- 36. (New) The isolated peptide of any one of claims 23-25 which binds and recognizes anti-HCV virus antibodies.
- 37. (New) The isolated peptide of claim 35 which binds and recognizes anti-HCV virus antibodies.
- 38. (New) A combination of peptides comprising a peptide of any one of claims 23-25.
 - 39. (New) A combination of peptides comprising a peptide of claim 35.
 - 40. (New) A combination of peptides comprising a peptide of claim 36.
- 41. (New) A composition comprising an isolated peptide of any one of claims 23-25.

- 42. (New) A composition comprising an isolated peptide of claim 35.
- 43. (New) A composition comprising an isolated peptide of claim 36.
- 44. (New) An assay kit for detecting the presence of anti-HCV virus antibodies within a sample of body fluid comprising at least one peptide of any one of claims 23-25.
- 45. (New) An assay kit for detecting the presence of anti-HCV virus antibodies within a sample of body fluid comprising a combination of peptides of claim 35.
- 46. (New) An assay kit for detecting the presence of anti-HCV virus antibodies within a sample of body fluid comprising a combination of peptides of claim 36.
- 47. (New) An assay kit for detecting the presence of anti-HCV virus antibodies within a sample of body fluid comprising a combination of peptides of claim 38.
- 48. (New) An assay kit for detecting the presence of anti-HCV virus antibodies within a sample of body fluid comprising a combination of peptides of claim 39.
- 49. (New) A method of raising an immune response in a human against hepatitis C virus, comprising administering to said human at least one peptide according to any one of claims 23-25.

- 50. (New) A method of raising an immune response in a human against hepatitis C virus, comprising administering to said human at least one peptide according to claim 32.
- 51. (New) A method of raising an immune response in a human against hepatitis C virus, comprising administering to said human at least one peptide according to claim 33.
- 52. (New) A method of raising an immune response in a human against hepatitis C virus, comprising administering to said human at least one peptide according to claim 34.
- 53. (New) A method of raising an immune response in a human against hepatitis C virus, comprising administering to said human at least one peptide according to claim 35.
- 54. (New) A method of raising an immune response in a human against hepatitis C virus, comprising administering to said human a combination of peptides according to any one of claims 23-25.
- 55. (New) A method for diagnosing exposure to or infection by HCV viruses comprising:

contacting anti-HCV virus antibodies within a sample of body fluid with at least one peptide according to any one of claims 23-25, determining the binding of anti-HCV virus antibodies within a sample of body fluid with said at least one peptide.

56. (New) The method according to claim 55 wherein said anti-HCV virus antibodies are anti-HCV antibodies.